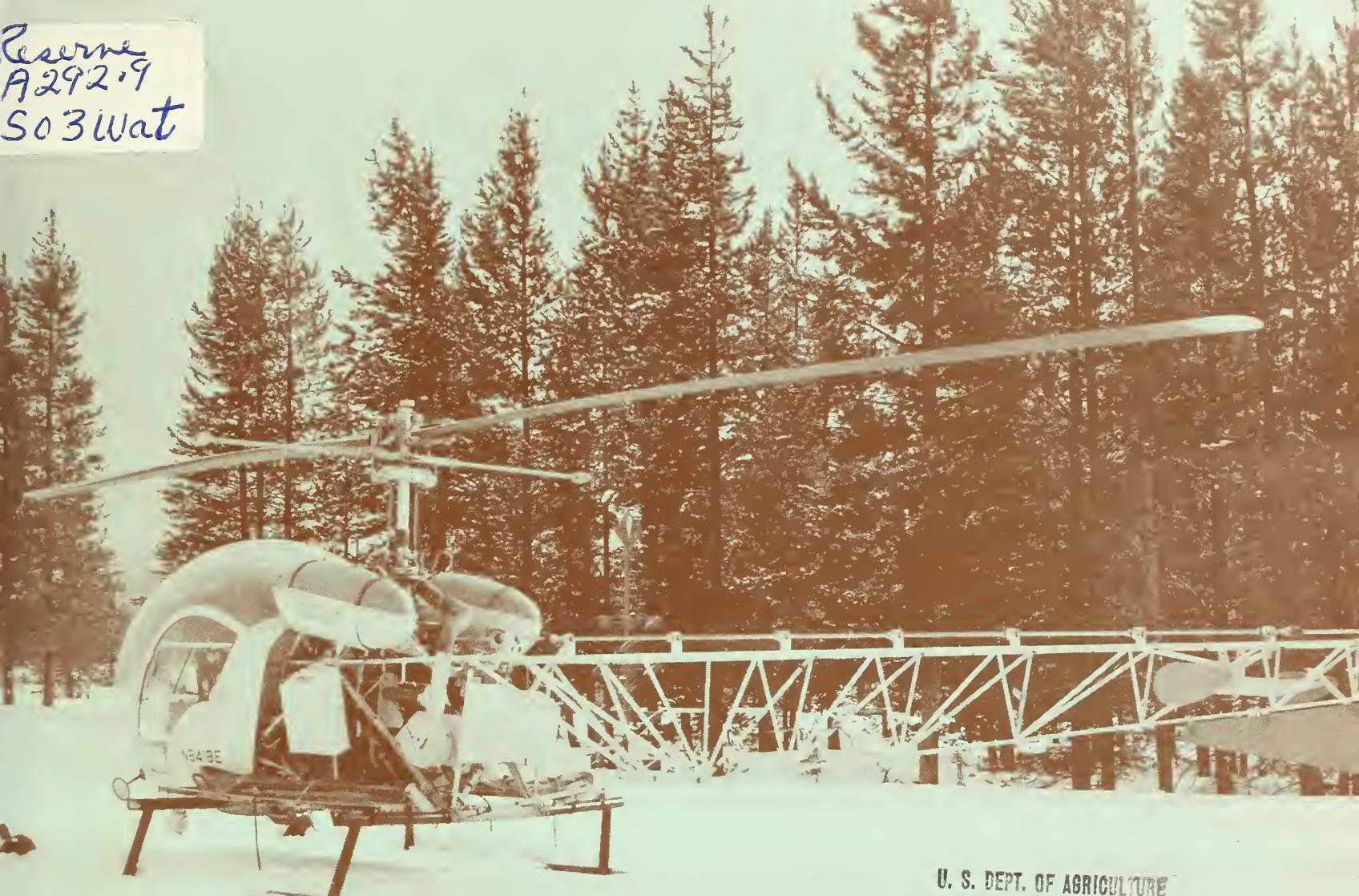


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JUN 2- 1965

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE.
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agency named above in cooperation with the Comptroller of Water Rights of British Columbia, and Federal, State and private organizations listed on the last page of this report.

AS OF
MAY 1, 1965

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Soil Conservation Service, 511 N.W. Broadway - Room 507, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

Report prepared by

MORLAN W. NELSON Snow Survey Supervisor

and

J. ALDEN WILSON Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
P.O. BOX 38, BOISE, IDAHO 83701

Issued by

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STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

CARL E. TAPPAN
STATE RECLAMATION ENGINEER
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MAY 1, 1965

The KOOTENAI RIVER is forecast to flow slightly above normal for the coming season. Snow melt has been delayed and precipitation throughout the basin was well above normal for the month of April. The delayed snow melt can cause peak flows to be significantly higher than would be expected from the near normal volumes.

The SPOKANE RIVER produced well above average flows during April. Middle elevation snow has melted although the few high elevation courses on the watershed indicate snow water continued to accumulate through the month of April. Streamflow for the remainder of the season is forecast to be about ten percent above the average.

The CLEARWATER RIVER flowed unusually heavy during April as the low and middle elevation snow melted. Precipitation on the drainage was well above normal. Runoff forecast for the April through September period was increased slightly over forecasts made on April 1.

The SALMON RIVER has several snow courses which increased in snow-water content during the month of April. Ordinarily these snow courses would have dropped in water content as a result of snow melt. Streamflow was high for April with snow cover indicating strong possibility of record volume flows on this river. Property owners on the flood plain of the Salmon River should make definite preparations for high flows when the major snow melt starts.

The LEMHI RIVER has a series of new snow courses which make precise interpretations difficult. However, the snow pack is so exceptionally heavy that there is a definite possibility of high, fast runoff on this river and its tributaries when the major snow melt begins.

The SNAKE, HENRYS FORK, and TETON RIVERS have an unusually heavy snow pack remaining. Several high elevation snow courses increased in relation to normal during April. Unusually high streamflow on the Henrys Fork and Teton rivers has already occurred, but the major peak is yet to come. Areas affected by high water should complete preparations for handling heavy volumes of water.

The RAFT RIVER, GOOSE CREEK, TRAPPER CREEK, SALMON FALLS CREEK, BRUNEAU, and Owyhee RIVERS are assured of an excellent water supply for 1965. Reservoir storage is excellent on all of these rivers. The Owyhee Reservoir is already spilling water. The other reservoirs can hold all of the water forecast and should have considerable carry-over from the 1965 season. Soil moisture measurements on all of these drainages indicate moist or saturated soils at the intermediate and high elevations. Farm and ranch operators will have more water available for irrigation than they have had for many years.

The BIG LOST RIVER has the heaviest snow pack ever experienced since 1936. The snow is underlain by saturated soils which will add to the runoff from melting snow. Streamflow so far has been above normal, but the major snow melt has not yet started on this river. The combination of heavy snow pack, saturated soils and heavy spring precipitation strongly indicate record flows for the Big Lost River. Property owners on the flood plain of the Big Lost River are encouraged to complete preparations for high streamflow during May or the early part of June.

The BIG and LITTLE WOOD RIVERS have a record-breaking snow pack underlain by saturated or very moist soils. Snow-water content at the high elevation snow courses on these rivers increased during April. This unusual increase was on snow courses which already had more water content than has ever been experienced in the period of record. The towns and property owners affected by heavy volume flows on these rivers should complete work and plans for handling high flows. The chances of a slow, even melt have been reduced significantly because major snow melt did not occur during April.

The BOISE RIVER continued unusually high flows throughout April. Moores Creek and the Middle Fork exceeded flood stage for a few days during the month. Cool weather prevented a high peak flow and delayed the major snow melt. Many snow courses on this river exceed the May 1 normals by a very large margin. All of the high elevation courses increased in water content during April. The maximum occurred on some courses around the middle of April. At the high elevation snow courses, snow water is still continuing to accumulate. The major snow melt has not yet started on this river, and volume forecasts have been increased because of the heavy snowfall and precipitation during April. Multiple-purpose flood control operations have been continuous since the first of February.

The PAYETTE RIVER has several snow courses with water contents exceeding anything on record. South slopes and low elevations have lost their snow cover. In general, the volume predictions on the Payette River are not as high as on the Boise. The peak flow has not occurred on this river.

SQUAW CREEK has lost the south slope and low elevation snow cover. This is a highly desirable situation. Sage Hen Reservoir has literally no flood control capability remaining. The high elevation snow cover has not yet started to melt and high flows may be expected on this stream when the major snow melt occurs.

MONTPELIER CREEK reached flood stage near the end of April or the first of May even though the high elevation snow cover did not start to melt. Cool weather prevented further increase in flow from this watershed. Snow cover indicates the strong possibility of unusually heavy volume flows occurring again when the major snow melt begins. GEORGETOWN CREEK has a similar snow cover and high flow potential.

RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	1564.0	2003.0	2097.0*
Flathead	1791.0	1132.0	770.7	968.0
Pend Oreille	1561.0	1154.0	437.6	860.1
Noxon	334.6	170.1	101.1	--
<u>Spokane</u>				
Coeur d'Alene	238.5	524.3	226.6	347.8
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	401.0	635.4	422.9
Palisades	1200.0	315.0	821.5	--
American Falls	1700.0	1701.7	1697.3	1625.1
Island Park	127.0	137.3	133.4	127.4
Grassy Lake	15.2	12.6	9.4	12.4
Brownlee	980.2	118.1	469.9	--
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	32.2	20.3	25.5
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	74.5	49.3	47.4
<u>Big Lost</u>				
Mackay	44.2	30.0	42.2	33.3
<u>Big Wood</u>				
Magic	191.5	187.0	192.2	171.1
<u>Little Wood</u>				
Little Wood	30.0	20.7	28.1	18.2
<u>Boise</u>				
Anderson Ranch	423.2	261.3	327.8	239.7
Arrowrock	286.6	234.8	278.7	201.7
Lucky Peak	278.2	19.1	182.5	198.4*
Lake Lowell (Deer Flat)	169.0	165.7	161.1	157.9
<u>Owyhee</u>				
Owyhee	715.0	714.3	624.7	553.6
<u>Payette</u>				
Cascade	653.2	314.9	345.9	--
Deadwood	161.9	107.2	102.6	85.0
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1016.8	802.9	983.5

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1965

50 0 50 100 150
SCALE IN MILES

Contents
RESERVOIR
Capacity

1154.0
PEND OREILLE
1561.0

524.3
COEUR D'ALENE
238.5

107.2
DEADWOOD
161.9

314.9
CASCADE
653.2

118.1
BROWNLEE
980.2

714.3
OWYHEE
715.0

165.7
LAKE LOWELL
169.0

19.1
LUCKY PEAK
278.2

234.8
ARROWROCK
286.6

261.3
ANDERSON RANCH
423.2

170.1
NOXON
334.6

1564.0
HUNGRY HORSE
3428.0

1132.0
FLATHEAD LAKE
1791.0

30.0
MACKAY
44.2

137.3
ISLAND PARK
127.0

12.6
GRASSY LAKE
15.2

401.0
JACKSON LAKE
847.0

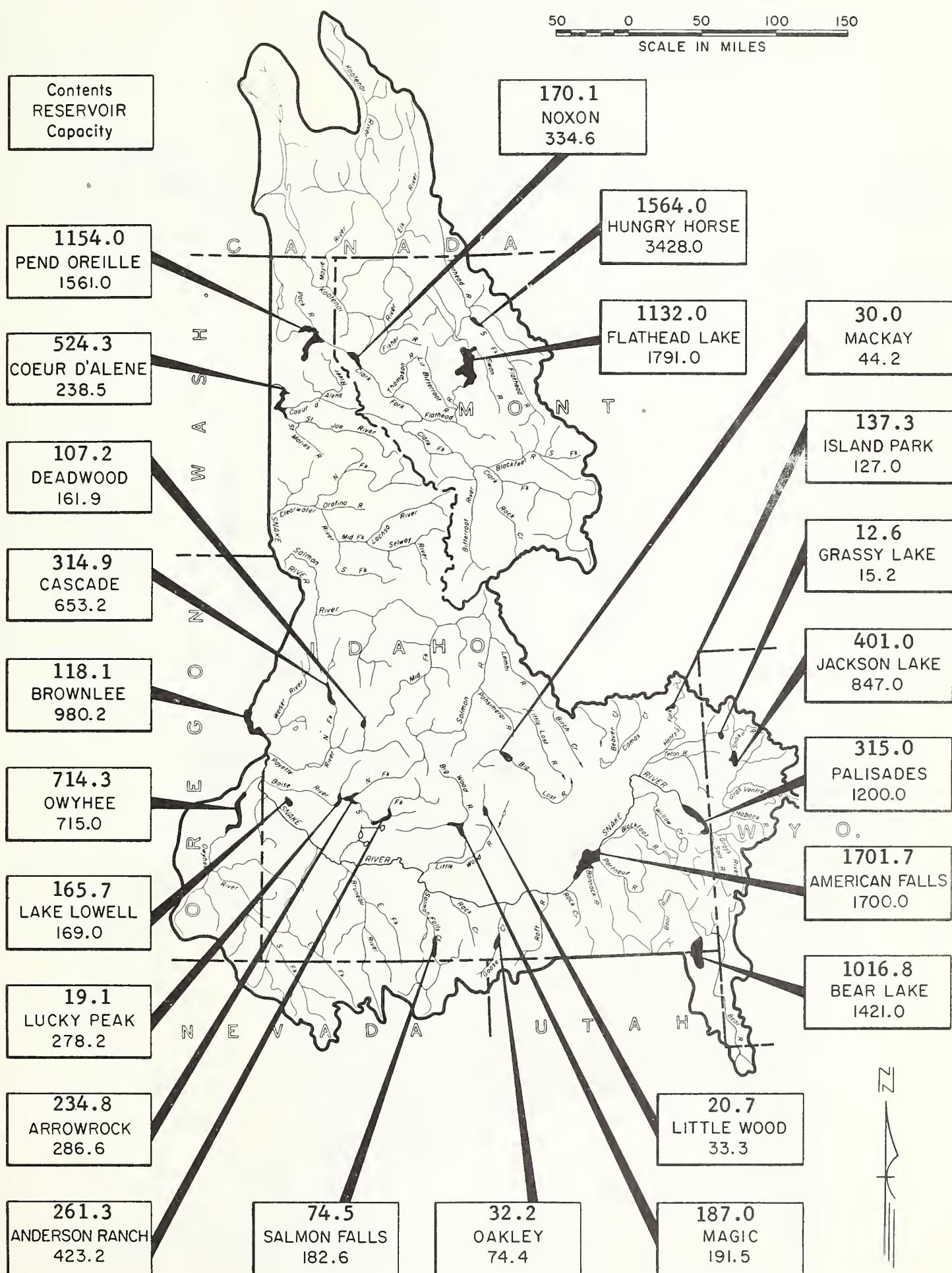
315.0
PALISADES
1200.0

1701.7
AMERICAN FALLS
1700.0

1016.8
BEAR LAKE
1421.0

20.7
LITTLE WOOD
33.3

187.0
MAGIC
191.5



VALLEY PRECIPITATION 1/

Division Averages and Departures
In Inches

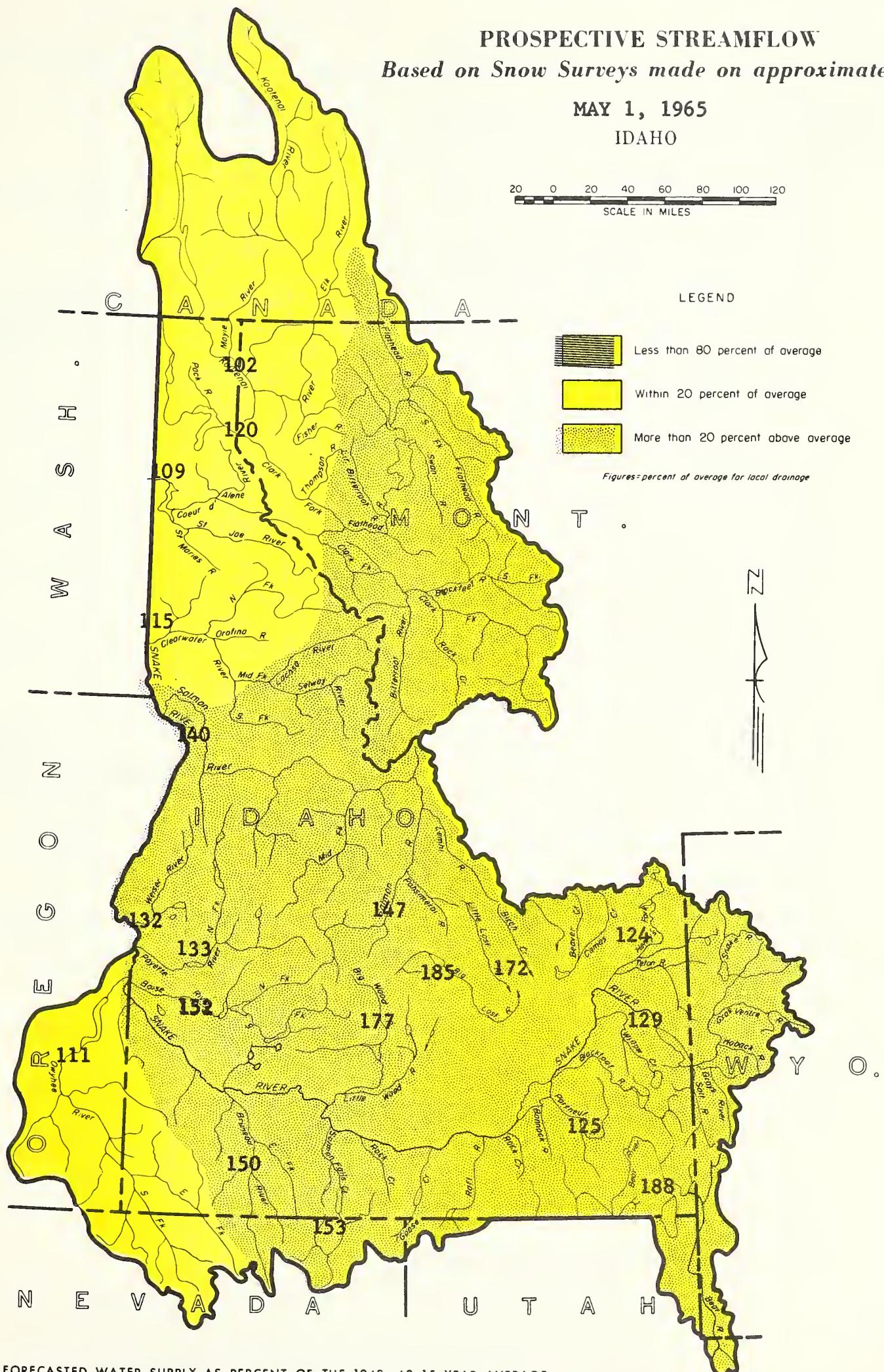
DRAINAGE DIVISIONS	Fall Sep.-Nov.-1964		Winter Dec. '64-Mar. '65		Spring April 1965	
	Obs.	Dep. 2/	Obs.	Dep. 2/	Obs.	Dep. 2/
Kootenai, Canada & U. S.	7.01	+0.09	11.57	+0.14	1.17	-0.44
Flathead	5.41	-0.18	10.29	+2.40	2.78	+1.07
Clark Fork	1.59	-1.26	6.01	+2.43	1.63	+0.74
Pend Oreille-Spokane	7.26	-1.68	15.32	+0.33	3.12	+0.91
Upper Snake	3.90	-0.80	10.70	+1.79	2.47	+1.00
Snake River Plain	2.28	+0.29	4.41	+0.69	2.14	+0.70
Salmon-Payette-Boise	3.75	-0.66	13.76	+4.42	2.86	+1.41
Clearwater	6.39	-0.65	13.78	+2.82	4.24	+1.77
Southeastern Oregon	2.26	+0.06	5.73	+1.16	1.31	+0.56

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Service of Canada and U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.

PROSPECTIVE STREAMFLOW
Based on Snow Surveys made on approximately
MAY 1, 1965
IDAHO

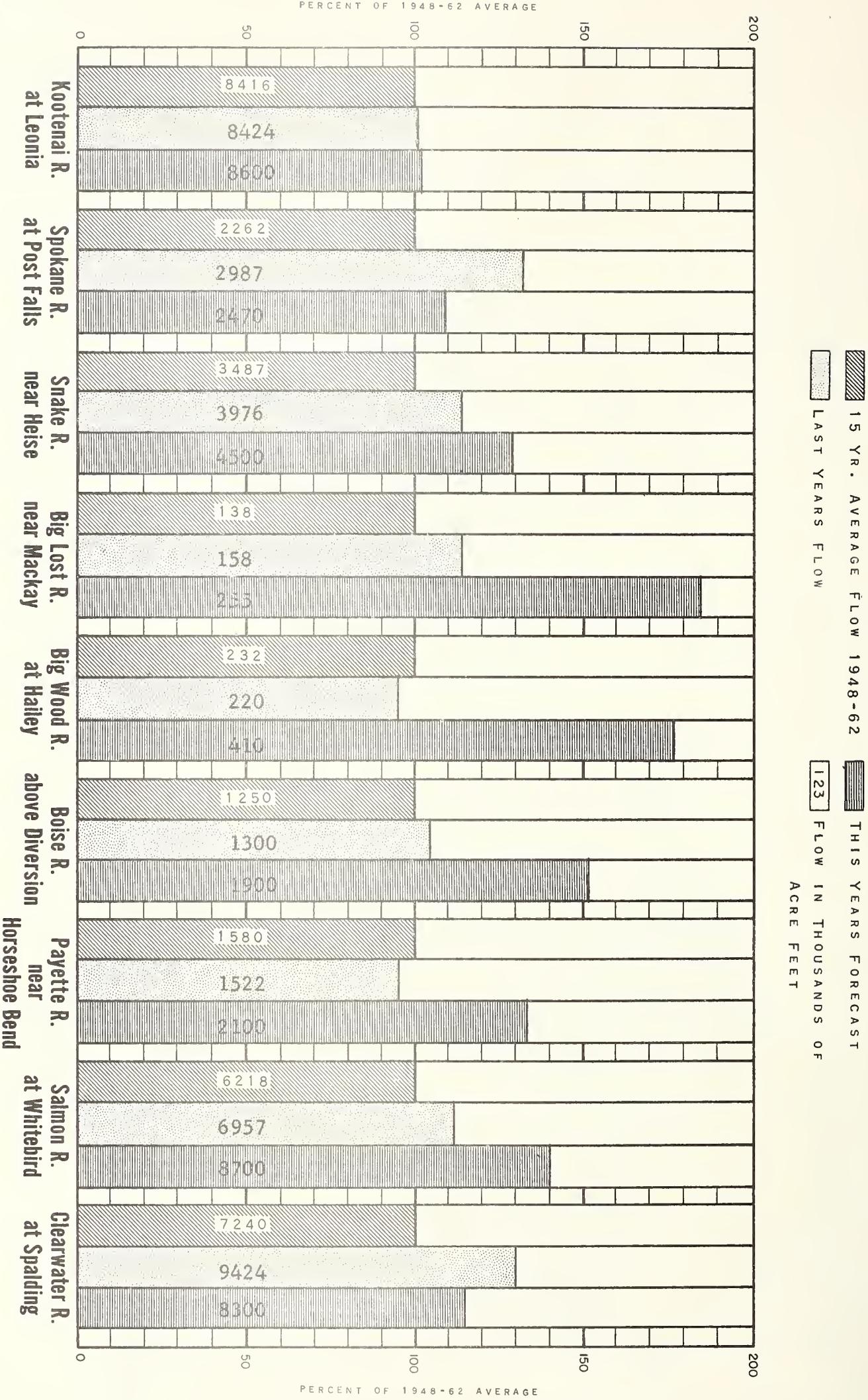
20 0 20 40 60 80 100 120
 SCALE IN MILES



STREAMFLOW FORECASTS (May through September period)

Based on Snow Surveys made on approximately

MAY 1, 1965



STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
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UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonia	(at)	8600 7450 5800	May - Sep May - Jul May - Jun	8424 7301 5703	8416 7268 5690	102 102 102
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PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	15100 13650 11400	May - Sep May - Jul May - Jun	14530 13064 10819	12580 11369 9499	120 120 120
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Priest River

Priest River 1/	(nr)	690	May - Jul	691	745	93
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SPOKANE RIVER

Post Falls 2/	(at)	2470	May - Sep	2987	2262	109
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Coeur d'Alene River

Cataldo	(nr)	965 900	May - Sep May - Jul	1180 1105	886 825	109 109
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St. Joe River

Calder	(at)	1210 1130	May - Sep May - Jul	1317 1231	1099 1029	110 110
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SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran 3/	(at)	980	May - Sep	--	818	120
Heise 4/	(nr)	4500	May - Sep	3976	3487	129
Blackfoot 5/	(nr)	4680	May - Jul	4217	3602	130
Weiser	(at)	6850	May - Sep	5682	5332	128

Henry's Fork

Ashton 6/	(nr)	630	May - Sep	606	508	124
Rexburg 7/	(nr)	1400	May - Sep	1377	1113	126

Teton River

St. Anthony	(nr)	480	May - Sep	479	355	135
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Blackfoot River

Blackfoot						
Reservoir Inflow		100	May - Sep	--	--	--

Portneuf River

Topaz	(at)	78	May - Sep	67	62	125
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(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.
 2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

STREAMFLOW FORECASTS^c(1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>Oakley Reservoir Inflow</u>	27	May-Sep	25.7	17.9	151
<u>Salmon Falls Creek</u>					
San Jacinto	(nr)	75	May-Sep	80	49
		70	May-Jul	76	46
<u>Bruneau River</u>					
Hot Springs	(nr)	225	May-Sep	178	150
<u>Little Lost River</u>					
Howe	(nr)	50	May-Sep	35	29
<u>Big Lost River</u>					
Howell Ranch	(at)	220	May-Jun	120	120
Mackay 1/	(nr)	255	May-Sep	158	138
<u>Big Wood River</u>					
Hailey 2/	(at)	410	May-Sep	220	232
Magic Reservoir					
Inflow 3/		320	May-Jul	145	162
<u>Little Wood River</u>					
High Five Creek	(ab)	120	May-Sep	63	59
<u>Boise River</u>					
Twin Springs	(nr)	920	May-Sep	551	613
		850	May-Jul	500	561
Boise 4/	(nr)	1900	May-Sep	1300	1250
<u>South Fork</u>					
Anderson Dam 5/	(at)	745	May-Sep	398	483
<u>Owyhee River</u>					
Gold Cr., Nev. 6/	(nr)	11	May-Jul	7	10
Owyhee, Nev. 6/	(nr)	48	May-Jul	47	42
Lake Owyhee		205	May-Sep	234	184
net inflow 7/		188	May-Jul	212	168
<u>Payette River</u>					
Horseshoe Bend 8/	(nr)	2100	May-Sep	1522	1580
<u>North Fork</u>					
Cascade 9/	(at)	640	May-Sep	511	483
Banks 9/	(nr)	800	May-Sep	629	604
		760	May-Jul	593	568
<u>South Fork</u>					
Banks 10/	(nr)	1150	May-Jul	747	846
					136

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 2/ Combined discharge of Big Wood River and Big Wood Slough corrected for diversions. 3/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Anderson Ranch Reservoir. 6/ Corrected for storage in Wild Horse Reservoir. 7/ From U.S.B.R. records of inflow. 8/ Corrected for storage in Cascade and Deadwood Reservoirs. 9/ Corrected for storage in Cascade Reservoir. 10/ Corrected for storage in Deadwood Reservoir.

STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
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Weiser River

Weiser ab. Crane Creek <u>1/</u>	370	May-Sep	357	280	132
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Salmon River

Whitebird	(at)	8700	May-Sep	6957	6218	140
Challis	(nr)	1300	May-Sep	743	822	147
		1050	May-Jul	637	710	148

Clearwater River

Spalding	(at)	8300	May-Sep	9424	7240	115
Kamiah		5000	May-Sep	5603	4238	118
		4750	May-Jul	5235	4023	118

North Fork

Ahsahka	(nr)	2990	May-Sep	3142	2590	115
		2750	May-Jul	2873	2389	115

GREAT BASIN

BEAR RIVER

Harer	(at)	380	May-Sep	252	202	188
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Montpelier Creek

Montpelier	(nr)	16	May-Sep	13.6	9.4	170
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Cub River

Preston	(nr)	65	May-Sep	51	44*	148
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* Partially estimated.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE <i>b</i>

KOOTENAI RIVER

Smith Creek	16A1	4800	4/30	85	44.2	56.4	47.5*
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PEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	4/30	0	0.0	0.0	0.0*
Benton Spring	16A3	4900	4/30	26	11.0	21.6	18.2
Schweitzer Bowl	16A6	4500	4/30	44	19.7	30.6	--
Schweitzer Ridge	16A5	6100	4/30	106	47.5	56.2	--

SPOKANE RIVER

Copper Ridge	16B2	4800	4/29	54	27.6	44.0	29.3
Fourth of July Summit	16B3	3100	4/27	0	0.0	3.2	--
Granite Peak	15B13	6000		Delayed		53.3	--
Lookout	15B2	5250	4/27	82	36.6	44.3	36.4
Lower Sands Creek	16B1	3400	4/29	39	16.6	28.8	14.2*
Medicine Ridge	15B4	6150		Delayed		52.7	--
Outlaw Creek	15B12	3750		Delayed		16.5	--

CLEARWATER RIVER

Cayuse Airstrip	15C3	3700		Delayed		2.7	1.2*
Coolwater Mountain	15C7	6200	5/5	** 31.6		--	--
Crater Meadows	15C9	6100		Delayed		57.8	--
Elk Butte	16C15	5550		Delayed		53.2	--
Fish Lake Airstrip	15C2	5000		Delayed		--	45.4*
Forty-nine Meadows	15B3	5000		Delayed		40.0	32.3*
Goat Lake	14C9	6600		Delayed		60.1	--
Granite Peak	15B13	6000		Delayed		53.3	--
Hemlock Butte	15C6	5500	5/5	** 59.3		71.8	--
Lolo Pass	14C5	5230	4/27	74	34.8	40.8	31.8*
Lost Lake	15B14	6000		Delayed		74.4	--
Medicine Ridge	15B4	6150		Delayed		52.7	--
Nez Perce Pass	14D1	6575	4/26	45	19.8	22.6	13.3
Orogrande Mountain	15D4	7800	5/5	** 54.4		--	--
Pierce Ranger Station	15C5	3170	4/27	4	1.8	9.7	1.6*
Powell Ranger Station	14C6	4230	4/27	0	0.0	8.2	--
Savage Pass	14C4	6600	4/28	72	35.4	--	27.7*
Shanghai Summit	15C4	4600		Delayed		36.7	25.2*

PALOUSE RIVER

Crumarine Creek	16C6	3500	5/1	0	0.0	0.0	0.0*
East Twin	16C3	4000	5/1	0	0.0	14.6	0.0*
Howard Creek	16C5	3500	5/1	0	0.0	0.0	0.0*
Moscow Mountain	16C2	4800	5/1	14	5.8	19.3	12.0*
West Twin	16C4	4200	5/1	0	0.0	0.9	0.1*

** Radioactive snow gage reading.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE ^b

LOWER SALMON RIVER

Big Creek Summit	15E2	6600	4/30	99	47.4	31.4	36.8*
#Boulder Creek	16D1	5500	4/28	46	22.3	19.6	--
Chapman Creek	16D2	4215	4/30	0	0.0	0.5	0.3*
#Deadwood Summit (A)	15E4	7000	4/29	132	63.2	37.7	48.5*
Johns Creek	16D3	3805	4/30	0	0.0	0.0	0.0*
#Rock Flat Summit	16E1	5200	4/27	46	20.5	18.6	14.9*
#Squaw Flat (A)	16E5	6230	4/29	43	20.9	18.9	--
#Squaw Meadow (A)	15D2	5800	4/29	77	36.9	28.1	37.9*
Whitebird Summit	16D5	4390	4/30	0	0.0	0.3	0.6*

UPPER SALMON RIVER

Borah (A)	13E8	8250	5/3	6	2.8	5.1	--
#Galena Summit	14F12	8795	4/29	94	41.2	24.7	23.3*
#Gibbons Pass	13D2	7100	4/30	61	29.2	26.7	23.1
Mill Creek Summit	14E1	8870	4/29	81	37.8	25.8	--
Morgan Creek	14E4	7580	4/30	41	20.0	14.3	--
Redfish Lake	14E2	6600	4/29	22	9.8	7.5	--
Twin Peaks (A)	14E3	10300	5/3	84	39.2	32.3	--
Vienna Mine (A)	14F4	8900	4/30	110	48.2	29.6	38.3*

Lemhi River

Above Gilmore (A)	13E19	8200	5/3	48	23.4	12.5	--
Aspen-Hall Pass (A)	13E21	8110	5/3	36	17.6	14.3	--
Copes Camp (A)	13E17	7500	5/3	13	6.3	11.3	--
Hall Creek (A)	13E20	7560	5/3	0	0.0	5.4	--
Meadow Lake (A)	13E18	9100	5/3	85	39.7	23.8	--
Schwartz Lake (A)	13E16	8500	5/3	52	25.4	21.8	--

HENRYS FORK RIVER

Big Springs	11E9	6500	4/29	42	21.0	18.7	--
Grassy Lake	10E15	7265	4/29	77	39.2	32.8	33.1
Island Park	11E10	6315	4/29	27	11.9	10.1	--
Valley View	11E8	6500	4/29	39	18.6	16.1	--

Teton River

Darby Canyon (A)	10F21	8250	5/3	56	25.4	23.6	--
Pine Creek Pass	11F2	6750	4/30	24	12.0	16.0	--
State Line	11F1	6400	4/30	20	9.6	14.5	7.9*
Teton Pass	10F13	8500	4/30	96	43.6	33.0	37.8*

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	AVERAGE <i>b</i>

BEAR RIVER

Emigrant Summit	11G6	7350	4/29	65	33.0	24.6	--
-----------------	------	------	------	----	------	------	----

Mink Creek

Christensen Ranch	11G11	5600	4/28	0	0.0	0.0	0.0*
Liberty Spring	11G13	8600	4/28	118	54.3	40.0	--
Strawberry Creek	11G9	5800	4/28	0	0.0	5.3	1.3*
Strawberry Mink Divide	11G10	6800	4/27	47	23.3	16.6	13.3*

Cub River

Cub River R. S.	11G12	5400	4/27	0	0.0	0.0	0.0*
Willow Flat	11G4	6100	4/27	14	6.4	6.2	2.4*

BIG WOOD RIVER

#Couch Summit (A)	14F10	6950	4/30	38	18.0	9.1	13.4*
Dollarhide Summit (A)	14F8	8620	4/30	95	40.8	22.2	27.6*
Galena	14F1	7300	4/28	63	29.4	14.6	13.1*
Galena Summit	14F12	8795	4/29	94	41.2	24.7	23.3*
Graham Ranch	14F5	6200	4/28	27	12.8	6.8	--
Mount Baldy	14F9	9000	4/29	91	39.2	20.6	21.2*
Soldier Rgr. Sta.	14F11	6100	4/29	0	0.0	--	--

Little Wood River - Fish Creek

Garfield Rgr. Sta.	13F4	6554	4/30	15	7.0	3.6	0.5*
Muldoon	13F5	6300	4/30	0	0.0	0.0	0.0*
Swede Peak	13F9	7500	4/30	58	26.6	14.7	12.3*

RAFT RIVER

Boy Scout Camp (A)	13G2	7600	4/29	35	17.0	12.7	--
Clear Creek Mdws. (A)	13H2	9050	4/29	99	48.1	27.5	--
Howell Canyon	13G1	8000	4/29	71	34.5	27.0	--
Summit Springs (A)	13G4	8500	4/29	0	0.0	T	--

GOOSE CREEK

Badger Gulch	14G3	6660	4/30	17	7.7	12.5	--
Bostetter Rgr. Sta. (A)	14G1	7500	4/29	27	12.2	17.4	--
Vi Pont (A)	13H3	7670	4/29	35	16.4	10.7	--

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD		
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	LAST YEAR	AVERAGE <i>b</i>

SALMON FALLS CREEK

#Bear Creek (A)	15H1	7800	4/29	51	24.1	17.5	21.0*
Cedar Creek (A)	14G5	7000	4/29	0	0.0	6.4	2.1*
Deadline	14G4	6900	4/27	55	26.0	28.2	18.8*
Goat Creek (A)	15H13	8800	4/29	51	21.7	20.2	19.4*
#Hummingbird Spgs. (A)	15H15	8945	4/29	75	31.9	32.2	25.1*
Magic Mountain	14G2	6700	4/27	47	22.0	21.1	15.4*
#Pole Creek R. S.	15H14	8330	4/28	63	26.8	25.1	22.2*
Red Point (A)	15H18	7940	4/29	14	6.0	18.7	--
Shoshone Basin	14G6	5740	4/29	0	0.0	--	0.0*
Wilson Creek (A)	15G2	7500	4/29	5	2.4	12.3	--

BOISE RIVER

Atlanta Summit	15F4	7500	5/2	108	49.0	33.8	35.9*
Bad Bear	15F2	5500	4/30	27	12.2	7.8	--
#Bogus Basin	16F2	6120	4/30	60	27.2	22.3	22.3
Bogus Basin Road	16F4	5360	4/30	0	0.0	0.0	--
Couch Summit (A)	14F10	6950	4/30	38	18.0	9.1	13.4*
#Dollarhide Summit (A)	14F8	8620	4/30	95	40.8	22.2	27.6*
Jackson Peak (A)	15E9	7000	4/29	101	46.7	--	31.7*
Moores Creek Summit	15F1	6100	4/30	94	43.4	29.2	30.0
#Soldier Rgr. Sta.	14F11	6100	4/29	0	0.0	--	--
Trinity Mountain	15F5	7400	5/2	126	64.2	35.2	44.5*
Vienna Mine	14F4	8900	4/30	110	48.2	29.6	38.3*

PAYETTE RIVER

#Big Creek Summit	15E2	6600	4/30	99	47.4	31.4	36.8*
Bogus Basin	16F2	6120	4/30	60	27.2	22.3	22.3
Brundage Mountain	16D6	7700	5/1	160	63.2	--	--
Cozy Cove	15E8	5900	4/26	34	15.0	9.9	9.3
Crawford Rgr. Sta.	15E3	4800	4/30	0	0.0	0.0	0.0*
Deadwood Airstrip	15E10	5440	4/26	25	12.2	10.0	4.6*
Deadwood Dam	15E7	5500	4/26	34	14.7	11.0	13.4
Deadwood Summit (A)	15E4	7000	4/29	132	63.2	37.7	48.5*
Greenfield Flat (A)	16E7	7370	4/29	121	58.0	40.6	--
#Jackson Peak (A)	15E9	7000	4/29	101	46.7	--	31.7*
Rock Flat Summit	16E1	5200	4/27	46	20.5	18.6	14.9*
Squaw Meadow (A)	15D2	5800	4/29	77	36.9	28.1	37.9*

WEISER RIVER

Boulder Creek	16D1	5500	4/28	46	22.3	19.6	--
Mica Ridge (A)	16E6	6800	4/29	74	35.4	30.2	--
Squaw Flat (A)	16E5	6230	4/29	43	20.9	18.9	--

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	AVERAGE <i>b</i>

BRUNEAU RIVER

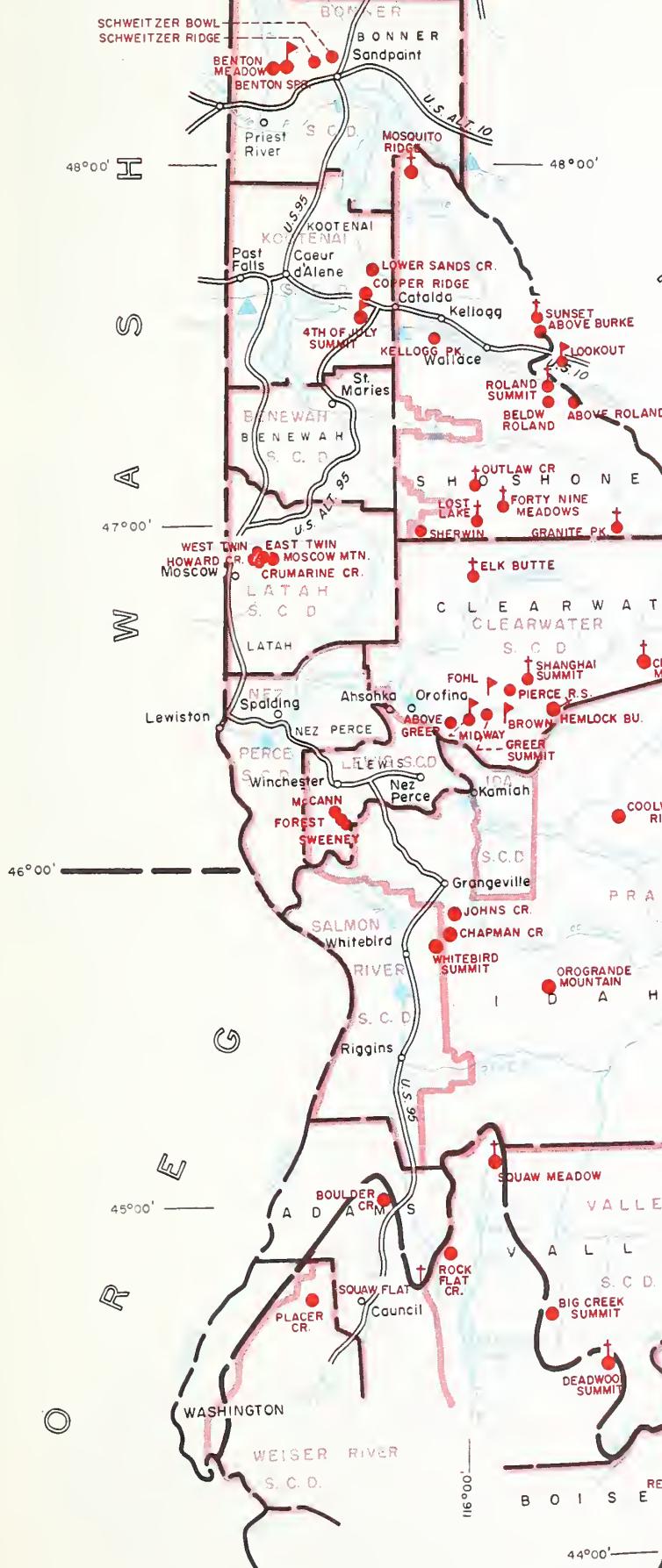
Bear Creek (A)	15H1	7800	4/29	51	24.1	17.5	21.0*
Hummingbird Spgs. (A)	15H15	8945	4/29	75	31.9	32.2	25.1*
Pole Creek Rgr. Sta.	15H14	8330	4/28	63	26.8	25.1	22.2*

OWYHEE RIVER

Antelope Ridge	16G6	5900	4/30	0	0.0	--	--
#Bear Creek	15H1	7800	4/29	51	24.1	17.5	21.0*
Mud Flat	16G7	5500	4/30	0	0.0	--	--
Silver City (A)	16F3	6400	4/30	8	3.5	11.4	6.1*

C A N A D A

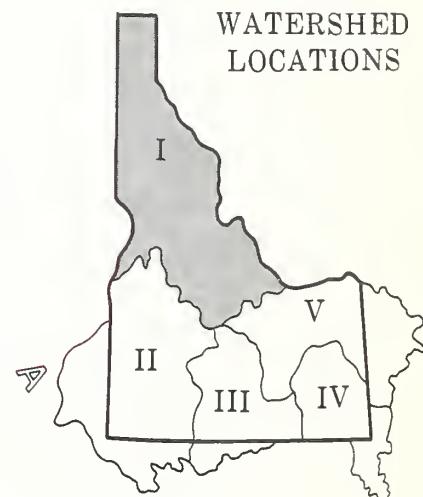
KOOTENAI, PEND OREILLE, SPOKANE, PALOUSE, CLEARWATER, SALMON WATERSHEDS



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station

WATERSHED LOCATIONS



25 0 25 50 75
SCALE IN MILES

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. OR ANO	ELEV. LONG.	NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. OR ANO	ELEV. LONG.						
KOOTENAI RIVER																			
16A1	I	Smith Creek	29	64N	3W	4800	16D2	I	Chapman Creek	16	29N	2E	4215						
PRIEST RIVER																			
16A2	I	Benton Meadow	27	53N	4W	2344	13E17A	I	Copes Camp	36	18N	22E	7500						
16A3M	I	Benton Spring	30	58N	3W	4900	13D17a	I	Gertson Creek	22	22N	23E	8050						
16A6	I	Schweitzer Bowl	20	2W	58N	4500	13D2	M	Gibbons Pass	4	2S	19W	7100						
16A5	I	Schweitzer Ridge	19	2W	58N	6100	13D9	M	Gold Stone	11	8S	16W	8100						
SPOKANE RIVER																			
15B8	I	Above Burke	11	48N	5E	4100	13E20A	I	Hall Creek	1	16N	27E	7560						
15B7	I	Above Roland	35	47N	6E	4350	16D3	I	Johns Creek	9	29N	2E	3205						
15B6	I	Below Roland	34	47N	6E	3770	13E1	M	Lemhi Pass	9	10S	15W	7480						
16B2	I	Copper Ridge	6 & 7	50N	1W	4800	13E13m	I	Lower Big Flat	31	12N	24E	6500						
16B3M	I	Fourth of July Summit	6	49N	1W	3100	13E10m	I	Mahogany Bar	10	10N	23E	7900						
15B13A	I	Granite Peak	3	42N	8E	6000	13E18AM	I	Meadow Lake	24	13N	26E	9100						
16B5A	I	Kellogg Peak	19	48N	3E	5560	14ELMA	I	Mill Creek Summit	8	13N	17E	8870						
15B2M	I	Lookout	4	47N	6E	5250	13D16	I	Moose Creek	22 & 26	27N	21E	6200						
16B1	I	Lower Sands Creek	32	51N	1W	3400	14E4	I	Morgan Creek	32	18N	19E	7580						
15B4A	I	Medicine Ridge	24	43N	10E	6150	14E2	I	Redfish Lake	3	9N	13E	6600						
16A4A	I	Mosquito Ridge	5	54N	2E	5110	13E16A	I	Schwartz Lake	34	18N	22E	8500						
15B12	I	Outlaw Creek	19	44N	5E	3750	13E2	M	Trail Creek	15	10S	15W	7090						
15B5A	I	Roland Summit	26	47N	6E	5200	14E3a	I	Twin Peaks	28	15N	17E	9190						
16C1	I	Sherwin	28 & 33	42N	1E	3200	14F4A	I	Vienna Mine	32	6N	14E	8900						
15B9A	I	Sunset	28	49N	5E	5600	13E12m	I	West Big Flat	35	12N	23E	6550						
BIG LOST RIVER																			
14F15a	I	North Fork Meadow	20	7N	18E	8150	16D5	I	Whitebird Summit	17	29N	2E	4390						
BIG WOOD RIVER																			
14F12M	I	Galena Summit	33	7N	15E	8795	14D4	I	Williams Creek Summit	34	21N	20E	7800						
PAYETTE RIVER																			
15E2M	I	Big Creek Summit	24	15N	5E	6608	CLEARWATER RIVER												
15E4A	I	Deadwood Summit	23	14N	7E	7000	16C11	I	Above Greer	14	35N	2E	1240						
16E1L	I	Rock Flat Summit	1	18N	2E	5200	16C14m	I	Brown	11	35N	3E	3100						
15D2A	I	Squaw Meadow	5	21N	4E	5800	15C3A	I	Cayuse Airstrip	4	38N	11E	3700						
WEISER RIVER																			
16D1	I	Boulder Creek	15	20N	1W	5700	15C7	I	Coolwater Mountain	32	33N	8E	6200						
16E5a	I	Squaw Flat	32	17N	2E	6230	15C9A	I	Crater Meadows	2	37N	9E	6100						
16E2	I	Placer Creek	15 & 16	17N	3W	6000	16C15A	I	Elk Butte	6	40N	3E	5550						
SALMON RIVER																			
13E19AM	I	Above Gilmore	13	13N	26E	8200	15C2A	I	Fish Lake Airstrip	35	35N	11E	5000						
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110	15C8m	I	Fohl	16	36N	5E	3450						
13E11m	I	Big Flat	25	11N	23E	7050	16C9	I	Forest	1	32N	3W	4550						
13E8a	I	Borah	21	10N	23E	8250	15B3	I	Forty-nine Meadows	6	43N	5E	5000						
PALOUSE RIVER																			
16C13	I	Greer Summit	13				14C9A	I	Goat Lake	4	38N	13E	6600						
15C6A	I	Hemlock Butte	12				16C13	I	Greer Summit	13	35N	2E	3000						
14D3	I	Kit Carson Pasture	4				15C6A	I	Hemlock Butte	12	36N	6E	5500						
14C5	M	Lolo Pass	11				14D3	I	Kit Carson Pasture	4	27N	16E	5020						
15B14A	I	Lost Lake	16				14C5	I	Lolo Pass	11	10N	24W	5230						
16C8	I	McCann	25				15B14A	I	Lost Lake	16	43N	4E	6000						
16C12M	I	Midway	14				16C8	I	McCann	25	33N	3W	4300						
14D1	M	Nezperce Pass	25				16C12M	I	Midway	14	35N	2E	2200						
15D4	I	Orogrande Mountain	24				14D1	M	Nezperce Pass	25	1S	24W	6575						
15C5	I	Pierce Ranger Station	2				15D4	I	Orogrande Mountain	24	27N	6E	7800						
14C6	I	Powell Ranger Station	33				15C5	I	Pierce Ranger Station	2	36N	5E	3171						
14C4	I	Savage Pass	18				14C6	I	Powell Ranger Station	33	37N	14E	4230						
15C4A	I	Shanghai Summit	7				14C4	I	Savage Pass	18	36N	15E	6600						
16C10	I	Sweeney	1				15C4A	I	Shanghai Summit	7	37N	6E	4600						
LEGEND																			
Numbering System (example)																			
10J7		SNOW COURSE ONLY.					16C6	I	Crumarine Creek	24	40N	5W	3500						
10J7P		SNOW COURSE AND PRECIPITATION GAGE.					16C3	I	East Twin	13	40N	5W	4000						
10J7M		SNOW COURSE AND SOIL MOISTURE STATION.					16C5	I	Howard Creek	14	40N	5W	3500						
10J7A		SNOW COURSE AND AERIAL MARKER.					16C2	I	Moscow Mountain	18	40N	4W	4800						
10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.					16C4	I	West Twin	14	40N	5W	4200						
10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.																	
10J7 m		SOIL MOISTURE STATION ONLY.																	
10J7 a		AERIAL MARKER ONLY.																	
10J7 p		STORAGE PRECIPITATION GAGE ONLY.																	

LEGEND

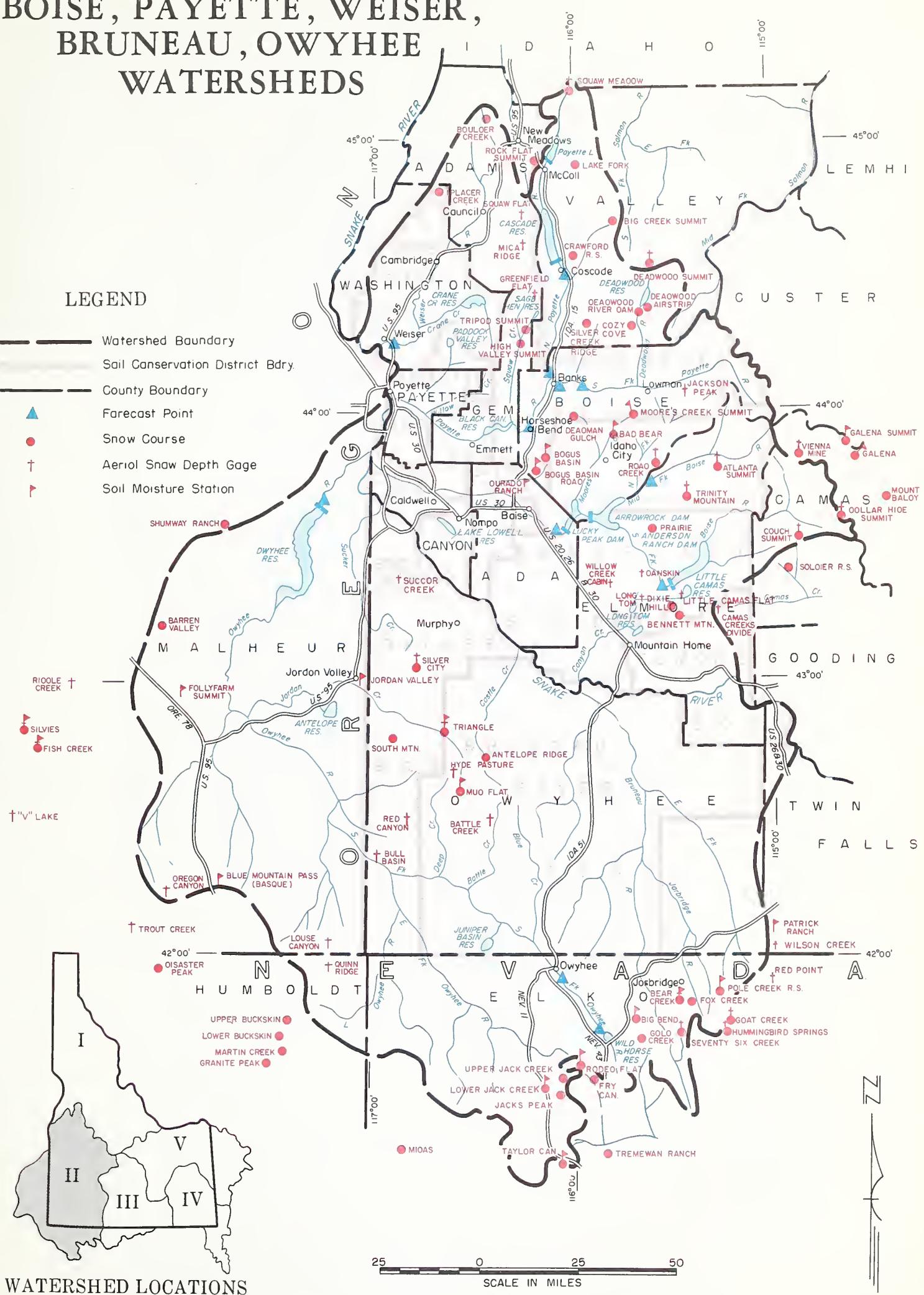
Numbering System (example)

10J7		SNOW COURSE ONLY.
10J7P		SNOW COURSE AND PRECIPITATION GAGE.
10J7M		SNOW COURSE AND SOIL MOISTURE STATION.
10J7A		SNOW COURSE AND AERIAL MARKER.
10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m		SOIL MOISTURE STATION ONLY.
10J7 a		AERIAL MARKER ONLY.
10J7 p		STORAGE PRECIPITATION GAGE ONLY.

BOISE, PAYETTE, WEISER, BRUNEAU, OWYHEE WATERSHEDS

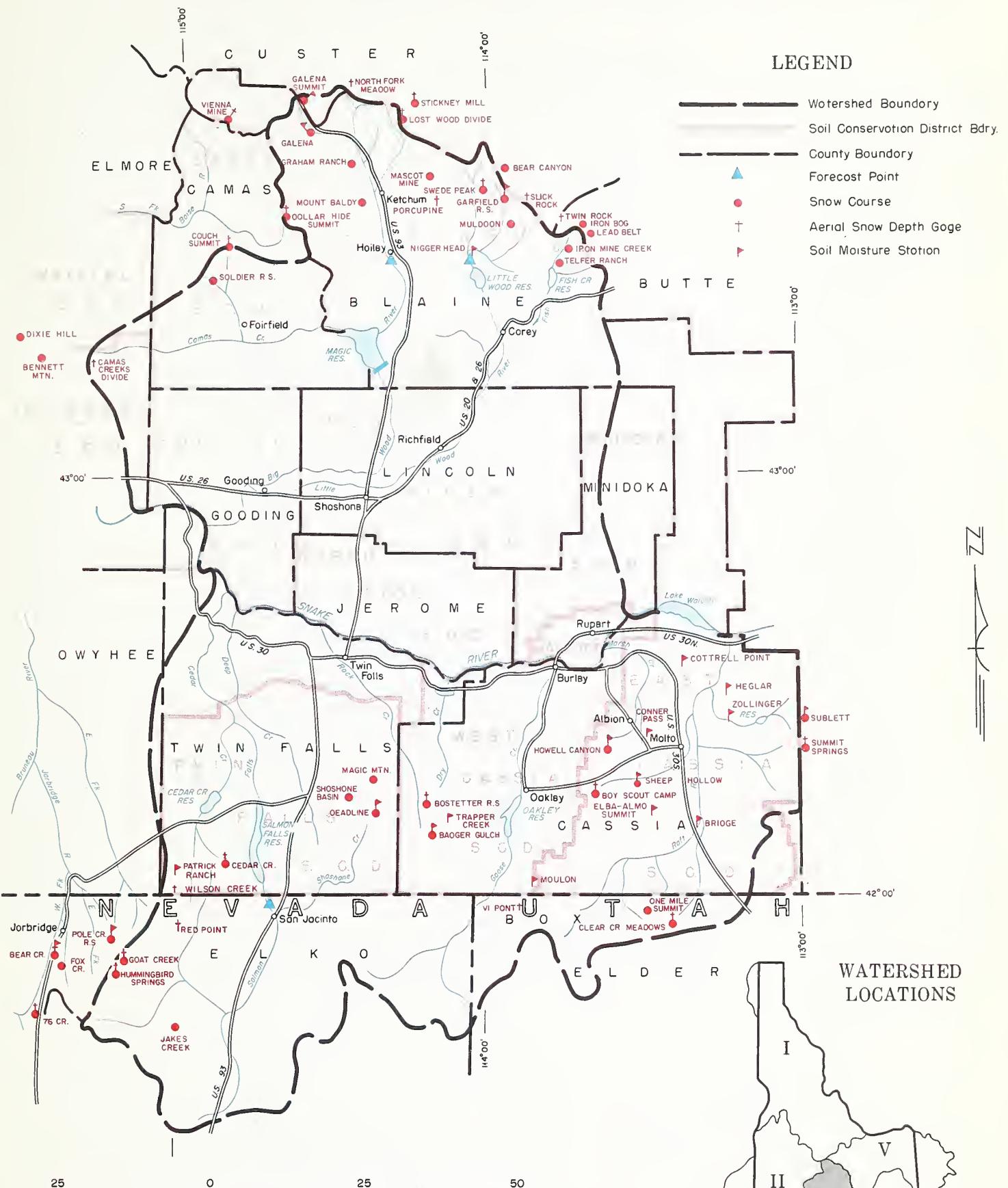
LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station



WATERSHED LOCATIONS

SNAKE RIVER, BIG WOOD, LITTLE WOOD, RAFT, GOOSE CREEK, SALMON FALLS CREEK WATERSHEDS



INDEX to SNOW COURSES

NU.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			OR			
			LAT.	AND	LONG.	

RAFT RIVER

13G2A	I	Boy Scout Camp	12	14S	23E	7600
13G11m	I	Bridge	7	15S	27E	4750
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13G6	I	Conner Pass	35	12S	25E	5700
13G7m	I	Cottrell Point	24	10S	25E	4490
13G10m	I	Elba-Almo Summit	29	14S	25E	5690
13G8m	I	Heglar	19	11S	28E	4590
13G11m	I	Howell Canyon	2	13S	24E	8000
13G12m	I	Moulton	27	16S	23E	5950
13H1	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
13G3M	I	Sublett	8	12S	30E	6000
13G4A	I	Summit Springs	15	13S	30E	8500
13G9m	I	Zollinger	2	13S	28E	5000

GOOSE - TRAPPER CREEK

14G3M	I	Badger Gulch	24	15S	19E	6660
14G1A	I	Bostetter Ranger Station	35	14S	19E	7500
14G7m	I	Trapper Creek	2	15S	20E	5300
13H3a	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CR. - BRUNEAU RIVER

15H1MA	N	Bear Creek	31	46N	58E	7800
14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H2	N	Fox Creek	33	46N	58E	6800
15H13A	N	Goat Creek	31	46N	60E	8800
15H15A	N	Hummingbird Springs	6	45N	60E	8945
14H1	N	Jakes Creek	6	42N	62E	7000
14G2	I	Magic Mountain	14	14S	18E	6700
15G1m	I	Patrick Ranch	23	15S	12E	5720
15H14M	N	Pole Creek Ranger Station	13	46N	59E	8330
15H18a	N	Red Point	15	47N	61E	7940
15H3A	N	Seventy Six Creek	6	44N	58E	7100
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2a	I	Wilson Creek	24	16S	12E	7500

BIG WOOD RIVER

14F8A	I	Dollar Hide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12M	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

13F4M	I	Garfield Ranger Station	11	3N	21E	6554
13F10	I	Iron Mine Creek	32	3N	23E	6370
13F5	I	Muldoon	25	3N	21E	6300
14F13m	I	Niggerhead	26	2N	20E	5450
14F14a	I	Porcupine	30	4N	20E	8350
13F9A	I	Swede Peak	4	3N	21E	7500
13F6	I	Telfer Ranch	12	2N	22E	6000

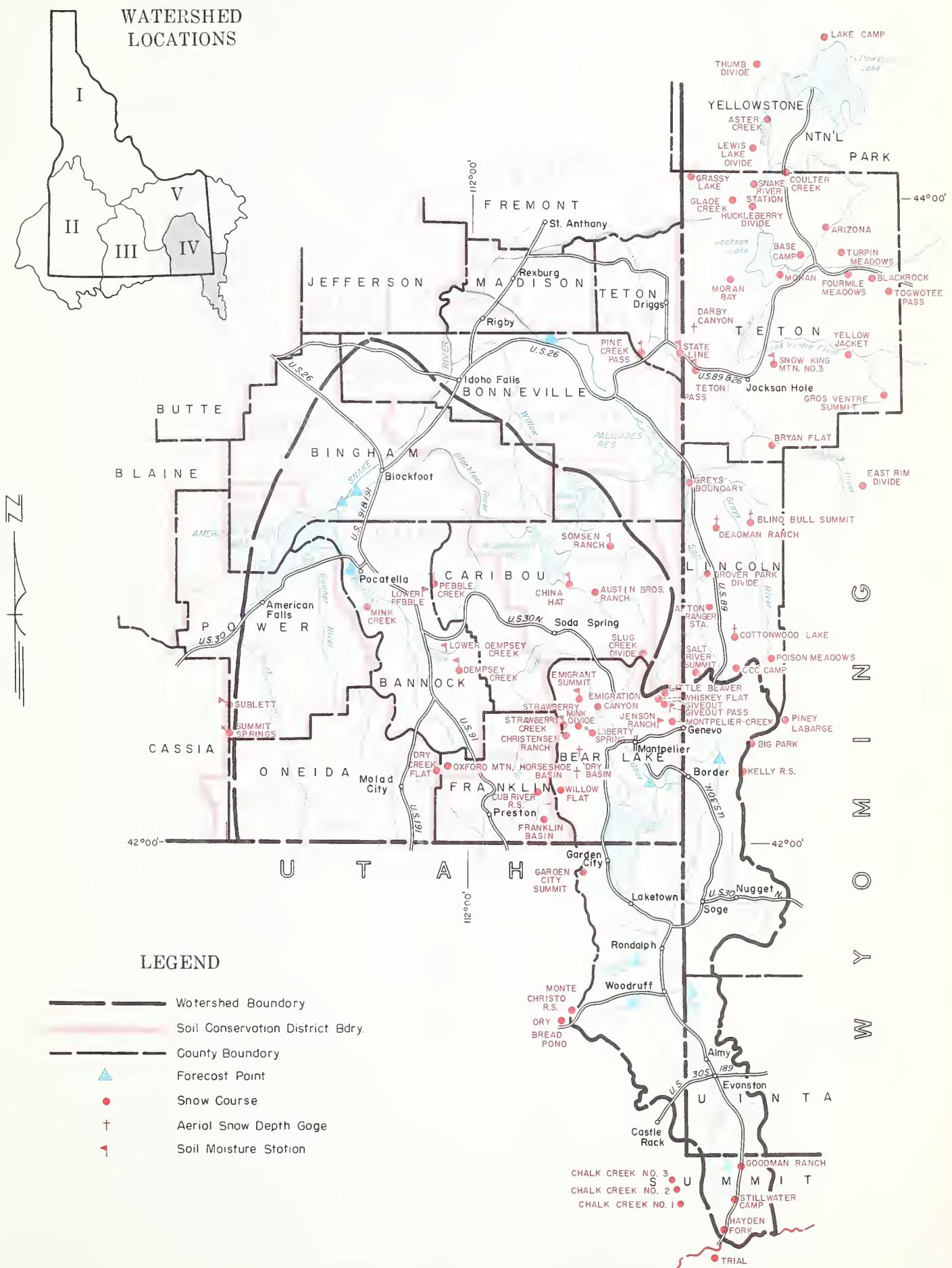
LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.					
10J7P	SNOW COURSE AND PRECIPITATION GAGE.					
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.					
10J7A	SNOW COURSE AND AERIAL MARKER.					
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.					
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.					
10J7 m	SOIL MOISTURE STATION ONLY.					
10J7 a	AERIAL MARKER ONLY.					
10J7 p	STORAGE PRECIPITATION GAGE ONLY.					

UPPER SNAKE, BLACKFOOT, PORTNEUF, BEAR, MALAD WATERSHEDS

25 0 25 50
SCALE IN MILES



INDEX to SNOW COURSES

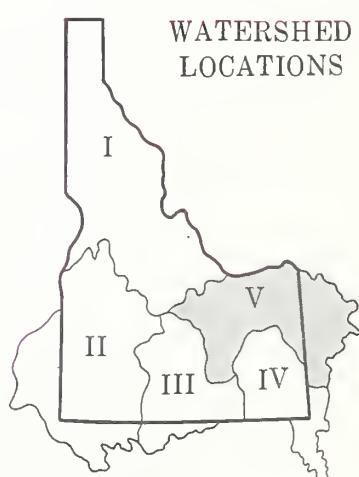
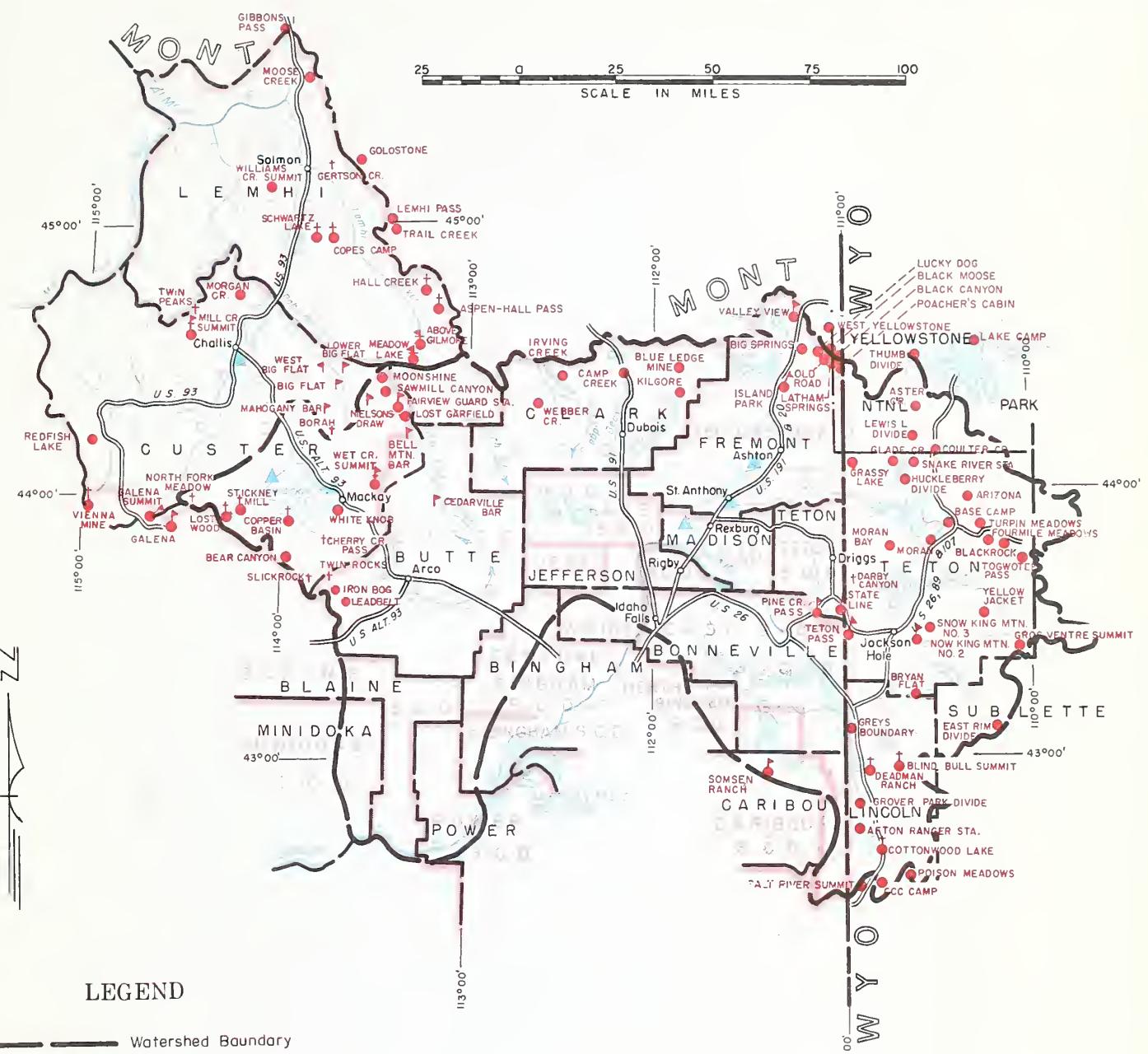
NU.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. ANO	ELEV. LONG.	NU.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. ANO	ELEV. LONG.						
SNAKE RIVER - WYOMING																			
10G4	WY	Afton Ranger Station	30	32N	118W	6200	12G5M	I	Dempsey Creek	17	10S	38E	6280						
10F1	WY	Arizona	3	46N	115W	6850	12G7m	I	Lower Dempsey	5	10S	38E	5210						
10E8	WY	Aster Creek	44°17'		110°38'	7700	12G6m	I	Lower Pebble	7	8S	38E	5800						
10F2	WY	Base Camp	20	46N	113W	6900	12G1	I	Mink Creek	33	7S	34E	6300						
10F7	WY	Blackrock	4	44N	111W	8600	12G2M	I	Pebble Creek	34	7S	37E	6550						
10G2A	WY	Blind Bull	6	34N	115W	8750	PORTNEUF RIVER												
10F14	WY	Bryan Flat	9	38N	115W	6250	BEAR RIVER												
10E3	WY	Canyon	44°44'		110°30'	7750	10G11	Wy	Big Park	7	27N	117W	8700						
10G7	WY	CCC Camp	9	29N	118W	7500	11G11	I	Christensen Ranch	27	13S	41E	5600						
10G5A	WY	Cottonwood Lake	25	31N	118W	7500	11G12	I	Cub River Ranger Station	5	15S	41E	5400						
10E10	WY	Coulter Creek	44°09'		110°33'	7600	11G14a	I	Dry Basin	30	13S	42E	7900						
10G1A	WY	Deadman Ranch	26	34N	116W	6534	11H13MP	U	Dry Bread Pond	19	8N	4E	8230						
10F17	WY	East Rim Divide	32	37N	111W	7950	11G6M	I	Emigrant Summit	21	12S	42E	7350						
10F6	WY	Four Mile Meadows	35	45N	112W	7770	11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500						
10E13	WY	Glade Creek	12	48N	116W	7200	11G8M	I	Franklin Basin	1	16S	41E	8000						
10F18	WY	Greys Boundary	33	37N	118W	5800	11H7P	U	Garden City Summit	35	14N	4E	7600						
10F19	WY	Gros Ventre Summit	36	40N	111W	8750	10J6	U	Goodman Ranch	19	3N	10E	7900						
10G3	WY	Grover Park Divide	27	33N	118W	7500	10J7	U	Hayden Fork	1	1S	9E	9300						
10E14	WY	Huckleberry Divide	32	48N	115W	7300	11G15a	I	Horseshoe Basin	31	13S	42E	8000						
10E4	WY	Lake Camp	44°34'		110°24'	7850	10G12	Wy	Kelly Ranger Station	13	26N	118W	8200						
10E9	WY	Lewis Lake Divide	44°13'		110°40'	7900	11G13A	I	Liberty Spring	7	13S	42E	8600						
10F4	WY	Moran	8 & 17	45N	114W	6800	11H12P	U	Monte Cristo R. S.	3	8N	4E	8960						
10F3	WY	Moran Bay	14	45N	116W	6800	10G10	W	Piney LaBarge x	19	29N	114W	8820						
10E2	WY	Norris Basin	44°44'		110°42'	7500	10J17P	U	Stillwater Camp	32	2N	10E	8550						
10G6	WY	Poison Meadows	29	30N	116W	8500	11G10	I	Strawberry Mink Divide	14	13S	41E	6800						
10G8	WY	Salt River Summit	32	29N	118W	7900	11G9M	I	Strawberry Creek	9	13S	41E	5800						
10E12	WY	Snake River Station	9	48N	115W	6780	11G4P	I	Willow Flat	2	15S	41E	6100						
10F20	WY	Snow King Mountain #3	4	40N	117W	7600	MALAD RIVER												
10E5	WY	Sylvan Pass	12	52N	110W	7100	12G4	I	Dry Creek Flat	31	13S	37E	6350						
10E7	WY	Thumb Divide	44°22'		110°35'	7900	12G3	I	Oxford Mountain	32	13S	37E	6800						
10F9	WY	Togwotee Pass	29	44N	110W	9600	MONTPELIER CREEK												
10F5	WY	Turpin Meadows	14	45N	112W	6930	11G16	I	Giveout	35	11S	45E	6840						
10F10	WY	Yellowjacket	33	42N	112W	7675	11G17m	I	Giveout Pass	2	12S	45E	7025						
TETON RIVER																			
10F21a	WY	Darby Canyon	28	43N	118W	8250	11G19m	I	Jenson Ranch	15	12S	45E	6580						
11F2M	I	Pine Creek Pass	24	3N	44E	6750	11G20	I	Little Beaver	26	11S	45E	6970						
11F1M	I	State Line	32	3N	46E	6400	11G18	I	Montpelier Creek	22	12S	45E	6570						
10F13M	WY	Teton Pass	24	41N	118W	8500	11G21	I	Whiskey Flat	26	11S	45E	6985						
BLACKFOOT RIVER																			
11G3	I	Austin Brothers Ranch	28	7S	43E	6450	LEGEND												
11G2M	I	China Hat	17	7S	42E	6300	Numbering System (example)												
11G5	I	Slug Creek Divide	15	10S	44E	7225	10J7		SNOW COURSE ONLY.										
11G1M	I	Somsen Ranch	25	5S	43E	7000	10J7P		SNOW COURSE AND PRECIPITATION GAGE.										
							10J7M		SNOW COURSE AND SOIL MOISTURE STATION.										
							10J7A		SNOW COURSE AND AERIAL MARKER.										
							10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.										
							10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.										
							10J7 m		SOIL MOISTURE STATION ONLY.										
							10J7 a		AERIAL MARKER ONLY.										
							10J7 p		STORAGE PRECIPITATION GAGE ONLY.										

LEGEND

Numbering System (example)

- 10J7 SNOW COURSE ONLY.
- 10J7P SNOW COURSE AND PRECIPITATION GAGE.
- 10J7M SNOW COURSE AND SOIL MOISTURE STATION.
- 10J7A SNOW COURSE AND AERIAL MARKER.
- 10J7MA SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
- 10J7MP SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
- 10J7 m SOIL MOISTURE STATION ONLY.
- 10J7 a AERIAL MARKER ONLY.
- 10J7 p STORAGE PRECIPITATION GAGE ONLY.

UPPER SNAKE, HENRY'S FORK, TETON, CAMAS - BEAVER CREEK, LITTLE LOST, BIG LOST, UPPER SALMON WATERSHEDS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. AND LONG.	ELEV.	NO.	STATE	NAME	SEC.	TWP. OR LAT.	RGE. AND LONG.	ELEV.						
SNAKE RIVER - WYOMING																			
10G4	WY	Afton Ranger Station	30	32N	118W	6200	13F3	I	Bear Canyon	26	5N	21E	8600						
10F1	WY	Arizona	3	46N	115W	6850	13F13a	I	Cherry Creek Pass	7	5N	23E	8900						
10E8	WY	Aster Creek	44°17'		110°38'	7700	13F2A	I	Copper Basin	24	6N	21E	8000						
10F2	WY	Base Camp	20	46N	113W	6900	13F11	I	Iron Bog	23	4N	22E	7650						
10F7	WY	Blackrock	4	44N	111W	8600	13F12	I	Leadbelt	34	4N	23E	6800						
10G2A	WY	Blind Bull	6	34N	115W	8750	14F3A	I	Lost Wood Divide	19	6N	19E	8750						
10F14	WY	Bryan Flat	9	38N	115W	6250	14F15a	I	North Fork Meadow	20	7N	18E	8150						
10E3	WY	Canyon	44°44'		110°30'	7750	13F14a	I	Slickrock	17	4N	22E	8640						
10G7	WY	CCC Camp	9	29N	118W	7500	14F2A	I	Stickney Mill	9	6N	19E	7500						
10G5A	WY	Cottonwood Lake	25	31N	118W	7500	13F15a	I	Twin Rocks	22	4N	22E	8100						
10E10	WY	Coulter Creek	44°09'		110°33'	7600	13F1	I	White Knob	25	7N	23E	7700						
10G1A	WY	Deadman Ranch	26	34N	116W	6534	BIG LOST RIVER												
10F17	WY	East Rim Divide	32	37N	111W	7950	14F1M	I	Galena	3	6N	15E	7300						
10F6	WY	Four Mile Meadows	35	45N	112W	7770	14F12M	I	Galena Summit	33	7N	15E	8795						
10E13	WY	Glade Creek	12	48N	116W	7200	BIG WOOD RIVER												
10F18	WY	Greys Boundary	33	37N	118W	5800	14F1M	I	Above Gilmore	13	13N	26E	8200						
10F19	WY	Gros Ventre Summit	36	40N	111W	8750	13E21A	I	Aspen-Hall Pass	6	16N	28E	8110						
10G3	WY	Grover Park Divide	27	33N	118W	7500	13E11m	I	Big Flat	25	11N	23E	7050						
10E14	WY	Huckleberry Divide	32	48N	115W	7300	13E8a	I	Borah	21	10N	23E	8250						
10E4	WY	Lake Camp	44°34'		110°24'	7850	13E17A	I	Copes Camp	36	18N	22E	7500						
10E9	WY	Lewis Lake Divide	44°13'		110°40'	7900	13D17a	I	Gertson Creek	22	22N	23E	8050						
10F4	WY	Moran	8 & 17	45N	114W	6800	13D2	M	Gibbons Pass	4	2S	19W	7100						
10F3	WY	Moran Bay	14	45N	116W	6800	13D9	M	Gold Stone	11	8S	16W	8100						
10E2	WY	Norris Basin	44°44'		110°42'	7500	13E20A	I	Hall Creek	1	16N	27E	7560						
10G6	WY	Poison Meadows	29	30N	116W	8500	13E1	M	Lemhi Pass	9	10S	15W	7480						
10G8	WY	Salt River Summit	32	29N	118W	7900	13E13m	I	Lower Big Flat	31	12N	24E	6500						
10E12	WY	Snake River Station	9	48N	115W	6780	13E10m	I	Mahogany Bar	10	10N	23E	7900						
10F20	WY	Snow King Mountain #3	4	40N	117W	7600	13E18AM	I	Meadow Lake	24	13N	26E	9100						
10E5	WY	Sylvan Pass	12	52N	110W	7100	14E1MA	I	Mill Creek Summit	8	13N	17E	8870						
10E7	WY	Thumb Divide	44°22'		110°35'	7900	13D16	I	Moose Creek	22 & 26	27N	21E	6200						
10F9	WY	Togwotee Pass	29	44N	110W	9600	14E4	I	Morgan Creek	32	18N	19E	7580						
10F5	WY	Turpin Meadows	14	45N	112W	6930	14E2	I	Redfish Lake	3	9N	13E	6600						
10F10	WY	Yellowjacket	33	42N	112W	7675	13E16A	I	Schwartz Lake	34	18N	22E	8500						
HENRYS FORK RIVER																			
11E9	I	Big Springs	34	14N	44E	6500	13E2	M	Trail Creek	15	10S	15W	7090						
11E18	I	Black Canyon	11	13N	45E	7850	14E3a	I	Twin Peaks	28	15N	17E	9190						
11E19	I	Black Moose	33	14N	45E	8125	14F4A	I	Vienna Mine	32	6N	14E	8900						
10E15	WY	Grassy Lake	6	48N	117W	7230	13E12m	I	West Big Flat	35	12N	23E	6550						
11E10M	I	Island Park	29	13N	43E	6315	14D4	I	Williams Creek Summit	34	21N	20E	7800						
11E16	I	Latham Springs	9	13N	45E	7650	SALMON RIVER												
11E14	I	Lucky Dog	2	13N	45E	6900	13E16A	I	Above Gilmore	13	13N	26E	8200						
11E15	I	Old Road	12	13N	44E	7250	13E21A	I	Aspen-Hall Pass	6	16N	28E	8110						
11E17	I	Poacher's Cabin	11	13N	45E	8000	13E8a	I	Big Flat	25	11N	23E	7050						
11E8M	I	Valley View	7	15N	44E	6500	13D2	M	Copper Basin	21	10N	23E	8000						
11E7	M	West Yellowstone	34	13S	5E	6700	13D9	M	Gold Stone	11	8S	16W	8100						
TONER RIVER																			
10F21a	WY	Darby Canyon	28	43N	118W	8250	14E3a	I	Iron Bog	23	4N	22E	7650						
11F2M	I	Pine Creek Pass	24	3N	44E	6750	14F4A	I	Leadbelt	34	4N	23E	6800						
11F1M	I	State Line	32	3N	46E	6400	13E17A	I	Lost Wood Divide	19	6N	19E	8750						
10F13M	WY	Teton Pass	24	41N	118W	8500	13E1	M	North Fork Meadow	20	7N	18E	8150						
CAMAS - BEAVER CREEK																			
11E11	I	Blue Ledge Mine	27	13N	33E	6700	10J7		SNOW COURSE ONLY.	LEGEND									
12E3	I	Camp Creek	21	13N	36E	6800	10J7P		SNOW COURSE AND PRECIPITATION GAGE.	Numbering System (example)									
11E12	I	Kilgore	6	12N	39E	6200	10J7M		SNOW COURSE AND SOIL MOISTURE STATION.										
MEDICINE LODGE CREEK																			
12E4	I	Irving Creek	8	13N	33E	7035	10J7A		SNOW COURSE AND AERIAL MARKER.										
12E5	I	Webber Creek	23	12N	32E	6700	10J7MA		SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.										
LITTLE LOST RIVER																			
13F16m	I	Cedarville Bar	31	7N	28E	5400	10J7MP		SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.										
13E5M	I	Fairview Guard Station	27	12N	26E	6750	10J7m		SOIL MOISTURE STATION ONLY.										
13E15m	I	Bell Mtn. Bar	36	11N	26E	6640	10J7a		AERIAL MARKER ONLY.										
13E3	I	Lost-Garfield	3	11N	26E	6600	10J7p		STORAGE PRECIPITATION GAGE ONLY.										
13E6	I	Moonshine	31	13N	26E	7450													
13E14m	I	Nielson's Draw	26	11N	25E	6400													
13E4	I	Sawmill Canyon	17	12N	26E	6900													
13E7M	I	Wat Creek Summit	15	8N	25F	8175													

Agencies Assisting with Snow Surveys, etc.

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

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generation, navigation,
mining and industry

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with the Snow Survey”*